

AMENDMENT(S) TO THE SPECIFICATION

Please replace the paragraph beginning at page 1, line 13, with the following rewritten paragraph:

With the spread of radio communication techniques, such radio mobile terminals as portable telephone set, PHS (personal handy-phone system, PDA (~~persona~~ personal digital assistant) and small-size note-type personal computer, have become widely used. Such radio mobile terminals can be connected to internet via access points without use of any communication cable and also perform data communication with other data processing units on LAN, WAN (Wide Area Network) and PAN (Personal Area Network).

Please replace the paragraph beginning at page 6, line 5, with the following rewritten paragraph:

The radio mobile terminal receiving the announcement data from the radio base station, confirms the traffic display map and recognizes that the packets to addressed to itself have been buffered, whereupon [[It]] it transmits a control message urging the distribution to the radio base station. The radio base ~~station~~ station, receiving the control message urging the distribution from the radio mobile station, [[it]] executes the operation of transmitting the buffered packets to the radio mobile terminal. The broadcast packets to all the radio mobile terminals belonging to the radio base station are transmitted after announcement data with DTIM (distribution traffic display message).

Please replace the paragraph beginning at page 6, line 22, with the following rewritten paragraph:

Also, in the case of this operation, in the real-time communication in which the radio mobile terminal has to play each packet as soon as ~~receiving~~ it receives the packet, packets are provisionally accumulated in the radio base station and distributed in response to a polling from the radio mobile terminal in the next reception cycle thereof. Therefore, the packets are greatly delayed, leading to trouble occurrence in the playback.

Please replace the paragraph beginning at page 7, line 15, with the following rewritten paragraph:

Still further, in the prior art radio LAN system, when the radio mobile terminal increases the intermittent reception cycle for reducing the power consumption, a delay is caused in the packet reception in the connection call process, thus giving rise to such problem as it is no longer possible to [[made]] make a connection upon time-out in the opposite side terminal.

Please replace the paragraph beginning at page 7, line 27, with the following rewritten paragraph:

Further, in the prior art radio LAN system, when a large number [[Of]] of radio mobile terminals operating in the power-saving mode come to belong to the radio base station, a very large number of memories are required for accumulating packets addressed to the radio mobile terminals.

Please replace the paragraph beginning at page 17, line 2, with the following rewritten paragraph:

The communication control part 15 includes an MAC (Media Access Control) process part 16, a CPU (central processing unit) 17, an agent response part 18, a [[cash]] cache part 19 and a memory 20, and it is connected via an ethernet (R) interface part 21 to the external control unit 5 for outputting and inputting packet signals from and to the LAN or WAN line 100.

Please replace the paragraph beginning at page 17, line 8, with the following rewritten paragraph:

The CPU 17 serves to execute various controls in the communication control part 15. In the memory 20, control programs for various controls executed by the CPU 17 are stored. In the [[cash]] cache part 19, real-time data or like data are provisionally stored.

Please replace the paragraph beginning at page 17, line 13, with the following rewritten paragraph:

The MAC processing part 16 processes MAC addresses. The agent response part 18 serves as a response agent for a pertinent one of the radio mobile stations 2-1 to 2-N with respect to broadcast communication. The MAC processing part 16 and the agent response part 18 need not be formed as actual circuits, but they may also be ~~realize software-wise~~ realized as software by control programs stored in the memory 20.

Please replace the paragraph beginning at page 20, line 27, with the following rewritten paragraph:

In the case of communication other than the real-time communication, the radio mobile terminals 2-1 to 2-N detect from a received call process packet that other communication than the real-time one will be performed. The radio mobile terminals 2-1 to 2-N thus progressively receive packet signals stored in the [[cash]] cache part 19 in the radio base station 1 while remaining in the power-saving mode.

Please replace the paragraph beginning at page 21, line 21, with the following rewritten paragraph:

The multi-media terminal unit 4 sends out a call control packet for communication among the radio mobile terminals 2-1 to 2-N during operation in the power-saving mode to the radio base station 1 (a2 in Fig. 4). The call control packet from the multi-media terminal unit 4 is once stored in the [[cash]] cache part 19 in the radio base station 1, and is reported in the traffic display map of the announced data to the radio mobile terminals 2-1 to 2-N (a3 in Fig. 4).

Please replace the paragraph beginning at page 22, line 1, with the following rewritten paragraph:

The radio mobile terminals 2-1 to 2-N receive announced data in the next reception timing (as in Fig. 4), then develop the individual data elements, then recognize from the traffic

display map that there are packets addressed to themselves, and send out control packets urging the distribution to the radio base station [[11]] 1 (a5 in Fig. 4).

Please replace the paragraph beginning at page 22, line 7, with the following rewritten paragraph:

After the radio base station 1 receives the control packets urging the distribution from the radio mobile terminals 2-1 to 2-N, it distributes a packet from the multi-media terminal unit 4, as stored in the [[cash]] cache 19, to the radio mobile stations 2-1 to 2-N (a6 in Fig. 4).

Please replace the paragraph beginning at page 22, line 12, with the following rewritten paragraph:

When the radio mobile terminals 2-1 to 2-N receiving and developing the packet from the radio base station 1 ~~recognizes~~ recognize that the packet is a message (voice call control packet) requiring real-time communication (a7 in Fig. 4), they report, for transmitting the response to the call control packet, that they are going to be switched from the power-saving mode to the normal mode to the radio mobile station 1 by using the frame control field (a8 in Fig. 4), and execute continuous transmitting/receiving operation (a9 in Fig. 4).

Please replace the paragraph beginning at page 22, line 21, with the following rewritten paragraph:

The radio base station 1 recognizes, in the frame control field of the response packets from the radio mobile terminals 2-1 to 2-N, that the radio mobile terminals 2-1 to 2-N have been switched to the normal mode, and it performs a subsequent operation of transmitting packets addressed to the radio mobile stations 2-1 to 2-N from the multi-media terminal unit 4 without storing the packets in the [[cash]] cache part 19.

Please replace the paragraph beginning at page 23, line 25, with the following rewritten paragraph:

Also, in this embodiment the radio mobile terminals 2-1 to 2-N can perform power-saving operation by causing their dynamic switching to the power-saving mode [[before]] after completion of the real-time communication. Furthermore, in this embodiment the radio base station 1 performs optimum traffic distribution in dependence on the state of the radio mobile terminals 2-1 to 2-N, whereby both the real-time communication and the power-saving operation can be attained in the radio mobile terminals 2-1 to 2-N.

Please replace the paragraph beginning at page 24, line 10, with the following rewritten paragraph:

When a broadcast packet for solving the physical addresses of the radio mobile terminals 2-1 to 2-N appears on the LAN or [[WAM]] WAN line 100 in the power-saving mode operation of the radio mobile terminals 2-1 to 2-N, the radio mobile terminals 2-1 to 2-N may not always receive announced data (Beacon) with distributed traffic display message (DTIM). In other words, there may occur a case when the broadcast packet for solving the physical address can not be received.

Please replace the paragraph beginning at page 25, line 4, with the following rewritten paragraph:

At this time, since the radio mobile terminals 2-1 to 2-N are performing the long cycle intermittent reception, they may not be able to receive announced data (or beacon) with distributed traffic display message [[(DTIN)]] (DTIM), the multi-cast packet from the multi-media terminal unit 4 is broadcast to individual nodes constituting the multi-media radio network.

Please replace the paragraph beginning at page 26, line 6, with the following rewritten paragraph:

When the radio mobile terminals 2-1 to 2-N obtain the physical address of the multi-media terminal unit 4 from the radio base station 1, they reduce the power-saving mode intermittent reception interval to the cycle of the announced data from the radio base station 1, and perform short interval intermittent reception operation to be able to ~~operation of preparation~~ prepare for quickly receiving the subsequent packet addressed to the own station (b8 in Fig. 5).

Please replace the paragraph beginning at page 26, line 22, with the following rewritten paragraph:

Also, in this embodiment, packets at the time of real-time communication are not stored in the [[cash]] cache part 19 in the radio base station 1 in dependence on the states of the radio mobile terminals 2-1 to 2-N, and it is thus possible to solve the overflow problem in the [[cash]] cache part 19 in the radio base station 1.

Please replace the paragraph beginning at page 26, line 27, with the following rewritten paragraph:

Furthermore, in this embodiment, even with increase of the radio mobile terminals 2-1 to 2-N performing the real-time communication in the radio base station 1, without storage of any packet at the time of the real-time communication in the [[cash]] cache part 19 in the radio base station 1, it is possible to solve the problem of increasing a very large number of memories for accumulating packets addressed to the radio mobile terminals when it comes that a large number of radio mobile terminals 2-1 to 2-N operating in the power-saving mode belong to the radio base station 1.